

PATENT CLAIMS:

1. An umbrella with a shaft (2) and a frame (3) carried on the shaft (2) and comprised of a spider formed by a plurality of ribs (4) over which is spanned a canopy (5) and by respective spreaders (6) pivoted on the ribs (4) and on an actuator (7) slidable longitudinally along the shaft (2), characterized in that at least one brace (8) is pivoted at an inner end on a respective one of the spreaders (6) and at an outer end on a slide (9) that is slidable along an outer end region of the respective rib (4).

2. The umbrella according to claim 1, characterized in that a length of the rib (4) between its outer end and its pivotal connection with the respective spreader (6) is at least equal to the length of the respective brace (8) plus the length of the respective spreader (6) between its pivotal connection with the respective rib (4) and with the respective brace (8).

3. The umbrella according to claim 1 or 2, characterized in that a plurality of the braces (8) are distributed angularly extending between the spreaders (6) and the ribs (4).

4. The umbrella according to one of claims 1 to 3, characterized in that the ribs (4) are comprised of plastic and that in open condition a tension of the canopy (5) on the elastically bent ribs (4) and on the braces (8) is such that only a

sectoral inversion of the frame (3) with the canopy (5) is possible and a complete inversion of the canopy is inhibited circumferentially.

5 5. The umbrella according to claim 4, characterized in that the plastic spreaders have a diameter of 2 to 6 mm, preferably 3 to 4 mm.

6. The umbrella according to one of claims 1 to 5, characterized in that the braces (8) are made of plastic.

10 7. The umbrella according to one of claims 1 to 6, characterized in that in open condition the spider with the canopy (5) and frame (3) form a spring element acting as a damping member that resists inversion.

15 8. The umbrella according to claim 7, characterized in that the spring strength of the damping member is such that only a sectoral inversion is possible and that it forces an automatic restoration by the damping member when wind pressure drops.

20 9. The umbrella according to one of claims 3 to 8, characterized in that every other spreader (6) has one such brace (8).

10. The umbrella according to one of claim 1 to 9, characterized in that the slides (9) are each formed by a tube engaged around the respective rib (4) and forming a pivot.

5 11. The umbrella according to one of claims 1 to 10, characterized in that the rib (4) of each brace (8) has at least where it engages the respective brace (8) a U-section in which a shoe carried by the respective slide (9) can shift.

10 12. The umbrella according to claim 11, characterized in that that the diameter of the brace (8) is smaller than the interior width of the U-section.

13. The umbrella according to one of claim 1 to 12, characterized in that the ribs (4) having braces (8) each have an abutment for limiting sliding of the respective slide (9) toward the shaft (2).

15 14. The umbrella according to claim 13, characterized in that the abutment is mounted on the respective rib (4) at a spacing from its outer end that is effective via the respective brace (8) to curve the respective rib (4) so as to prestress the frame (3) when open in a direction resisting inversion.